Which of the following is the correct updated rule for replacing the nonterminal S after the A -> ε rule is removed from the following CFG: S -> AS|bA, A -> B|ε, B -> b?

 (3 points)
 A. S -> AS | bA | A

 B. S -> AS | b
 C. S -> S | b
 ✓ D.S -> AS | S | bA | b

2. Which of the following is the correct updated rule for replacing the nonterminal S after the B -> ε rule is removed from the following CFG: S -> ASB|BAB, B -> b|ε, A -> Aa|ε?
(3 points)
✓ A. S -> ASB | BAB | AS | AB | BA | A B. S -> ASB | BAB | AS | AB | BA

D.S -> ASB | BAB | AS | S | AB | BA

(3 points)

$$A.S -> A_1A|BA, A_1->AS, B->b$$

C. S -> ASB | BAB | AB | BA

B. S -> 
$$A_1A|bA$$
,  $A_1$ ->AS

$$\checkmark$$
 C. S -> A<sub>1</sub>A|BA, A<sub>1</sub>->SA, B->b

D. S -> 
$$A_1|AB$$
,  $A_1$ ->SA, B->b